

## MATERIAL SAFETY DATA SHEET<sup>1</sup>

PRODUCT NAME:	CHEMICAL NA	AME: Nucleopolyhedrosis Virus of		
TM-Biocontrol		Tussock Moth, Orgia pseudotsugata		
FORMULA: As a biological organism, this a.i. does	THE RESIDENCE OF THE PARTY OF T			
not lend itself to characterization by normal	Not Applicable			
pesticide criteria.				
SYNONYMS:	CHEMICAL FA	MILY:		
Not Applicable	Not Applicab	le		
I DHVCI				
I. PHYSICAL DATA				
BOILING POINT:	FREEZING POINT:			
Not Applicable	Not Applicable			
SPECIFIC GRAVITY (H <sub>2</sub> 0=1):	VAPOR PRESSURE (MM Hg):			
Not Applicable	Not Applicab			
VAPOR DENSITY (AIR=1):		N RATE (Butyl Acetate=1):		
Not Applicable	Not Applicable			
% VOLATILES BY VOLUME:	SOLUBILITY IN WATER (% by wt):			
Not Applicable	Insoluble			
APPEARANCE AND ODOR:				
Dried Insect body parts and virus polyhedral; mus	sty odor.			
II. HAZARDOUS	SINGREDII	ENTS		
MATERIAL	PERCENT	TLV (Units)		
Nucleopolyhedrosis virus	11.6%	Not Applicable		
Impurities: Insect parts and inert solids	88.4%	Not Applicable		
This virus is non-toxic to warm blooded animals.				
III. FIRE AND EXPLO	OSION HAZ	ARD DATA		
FLASH POINT (METHOD USED):		FLAMMABLE LIMITS:		
Not Applicable		Not Applicable		
EXTINGUISHING MEDIA:				
This material burns with difficulty. Use water on	burning container	r.		
SPECIAL FIRE FIGHTING PROCEDURES:				
None except to avoid inhalation of particulates released by fire.				
UNUSUAL FIRE AND EXPLOSION HAZARDS:				
Not Applicable				

<sup>&</sup>lt;sup>1</sup> Prepared in compliance with the US Department of Labor, Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200). September 1997.

## IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: The acute oral  $LD_{50}$  is greater than 5000 mg/kg-b.w. in rats; indicating that the product is practically non-toxic by ingesting a single dose. The acute dermal  $LD_{50}$  is greater than 2000 mg/kg-b.w. in rabbits; indicating that the material is no more than slightly toxic from exposure to the skin. The acute inhalation is greater than 2 mg/L, indicating that the product is practically non-toxic if inhaled. This product was found to be a temporary eye irritant to rabbits.

		in a material is no more than slightly toxic from exposure to in 2 mg/L, indicating that the product is practically non-toxic		
if inhaled. This product w	as found to be a te	emporary eye irritant to rabbits.		
EFFECTS OF OVEREXP	OSURE: None k	nown		
EMERGENCY AND FIRST AID PROCEDURES		Remove from exposure situation. If in eyes, flush with plenty of water. If irritation persists, get medical attention. If on skin, wash with soap and water.		
NOTES TO PHYSICIAN		Prolonged exposure may cause allergies and   hypersensitivity in some individuals.		
V. REACTIVITY DATA				
STABILITY:	UNSTABLE [	STABLE 🔽		
CONDITIONS TO AVOID	Do not store in direct sunlight or at temperatures above 80° F.			
INCOMPATIBILITY (materials to avoid)	Not Applicable			
HAZARDOUS DECOMPOSITION PRODUCTS	Not Applicable			
HAZARDOUS POLYMERIZATION: MAY OCCUR ☐ WILL NOT OCCUR ☐				
CONDITIONS TO AVOID	   None			
VI. SPILL OR LEAK PROCEDURES				
STEPS TO BE TAKEN  IF MATERIAL IS RELEASED  OR SPILLED		Containment and cleanup by placing in a sealable container   for transport to an approved landfill or other disposal site.		
WASTE DISPOSAL METHOD		Burn empty bags or triple rinse containers and dispose of them at an approved site. Waste from this product may be disposed of on site or at an approved disposal site.		
VII. SPECIAL PROTECTION INFORMATION				
RESPIRATORY PROTECTION (Specify type)		Use normal work clothing and medical face mask as appropriate.		
VENTILATION:				
		Preferable		
MECHANICAL (general)		Acceptable		
		Goggles and medical face mask are required by mixers.		
OTHER PROTECTIVE   EQUIPMENT		Have eyewash, soap, and water available at project location.		

## VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING		Keep out of reach of children.   Avoid direct application to water.   Do not contaminate water, food or feed by inappropriate   storage and disposal.   Only for use as a biological insecticide for wide-area public   Douglas-fir tussock moth control programs sponsored by   government entities, and limited to forest and non-commercial trees.	
OTHER HANDLING AND STORAGE CONDITIONS		<ul> <li>Avoid heat and direct sunlight. Freezing temperatures are</li> <li>recommended for long-term storage.</li> <li>Wastes from this product may be disposed of on site or at</li> <li>an approved waste disposal facility.</li> <li>Do not reuse empty containers but arrange for disposal in</li> <li>a sanitary landfill or by incineration.</li> </ul>	
DEPARTMENT OF TRANSPORTATION	HAZARD CLASSIFICATION: Non-hazardous, non-toxic     SHIPPING NAME: Nucleopolyhedrosis Virus		
EDA DECICEDAZION			
EPA REGISTRATION #	27586-1 		
NAME	Nucleopolyhedrosis Virus		

The USDA Forest Service (FS believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of the tests conducted. The data are not to be taken as a warranty or representation for which the FS assumes legal responsibility. They are offered solely for your cooperation, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

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